Patent Assignment Abstract of Title

Total Assignments: 1

Application #: <u>09545868</u> **Filing Dt:** <u>04/07/2000</u> **Patent #:** <u>6265373</u> **Issue Dt:** <u>07/24/2001</u>

PCT #: NONE Publication #: NONE Pub Dt:

Inventors: Maria Jose Bermejo Oses, Miquel Mundo Blanch, Nuria Siscart Laguna, Pilar Castan

Barberan, Joseph Vilaret Ferrer

Title: Composition comprising a mixture of alkoxylated mono-, di- and triglycerides and

glycerine

Assignment: 1

Reel/Frame: 011022/0988 Received: Recorded: 08/03/2000 Mailed: 10/16/2000 Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: OSES, MARIA JOSE BERMEJO Exec Dt: 05/11/2000

BLANCH, MIQUEL MUNDO
LAGUNA, NURIA SISCART
Exec Dt: 05/11/2000
BARBERAN, PILAR CASTAN
Exec Dt: 05/11/2000
FERRER, JOSEP VILARET
Exec Dt: 05/11/2000

Assignee: KAO CORPORATION S.A.

E-08210 BARBERA DE VALLES, SPAIN

Correspondent: NATH & ASSOCIATES

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1030 15TH STREET, N.W. - 6TH FLOOR

WASHINGTON, D.C. 20005

Search Results as of: 1/28/2003 9:07:03 A.M.

10073941 HARDEE SEARCH REQUEST FORM

Access DB# <u>8533</u>4

Scientific and Technical Information Center

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Art Unit: 1764 Phone	e Number 30	Examiner # : Date:/ 8 Serial Number: 9 / 5 4 5 8 6	28/03
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Inventors (please provide full names):			
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Earliest Priority Filing Date:			
For Sequence Searches Only Please inc appropriate serial number.	lude all pertinent information	n (parent, child, divisional, or issued patent numbers) alor	ng with the
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Pate Searcher Picked Up:	Bibliographic	Dr.Link	
Pate Completed: 1/28/03	Litigation /	Lexis/Nexis	
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PTO-1590 (8-01)

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LEVEL 1 - 1 OF 1 PATENT

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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6265373

<=41> Link to Claims Section

July 24, 2001

Composition comprising a mixture of alkoxylated mono-, diand triglycerides and glycerine

REISSUE: February 14, 2002 - Reissue Application filed Ex. Gp.: 1751; Re. S.N. 10/073,941 (O.G. June 4, 2002)

INVENTOR: Oses, Maria Jose Bermejo - Viladecans, Spain (ES); Blanch, Miguel Mundo - Gurb, Spain (ES); Laguna, Nuria Siscart - Barcelona, Spain (ES); Barberan, Pilar Castan - Barcelona, Spain (ES); Ferrer, Josep Vilaret - Santa Maria Martorelles, Spain (ES)

APPL-NO: 545868 (09)

FILED-DATE: April 7, 2000

GRANTED-DATE: July 24, 2001

PRIORITY: April 13, 1999 - 99 106 233, European Patent Office (EP)

ASSIGNEE-AT-ISSUE: Kao Corporation S.A., Barbera de Valles, Spain (ES), 03

LEGAL-REP: Nath & Associates PLLC; Nath, Gary M.; Meyer, Jerald L.

PUB-TYPE: July 24, 2001 - Utility Patent having no previously published

pre-grant publication (B1)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 510#506

CL: 510

SEARCH-FLD: 554#149, 554#151, 554#227, 554#169, 554#163, 510#506

SEARCH-FLD: 554#149, 554#151, 554#227, 554#169, 554#163, 510#506

IPC-MAIN-CL: 7C 11D001#825

PRIM-EXMR: Hardee, John

REF-CITED:

- <=23> 2678935, May, 1954, Sundberg et al., United States (US), 2604106
 <=24> 3435024, March, 1969, Nobile et al., United States (US), 260210
 <=25> 4115415, September, 1978, Yoshihara et al., United States (US), 2604107
 <=26> 4600539, July, 1986, Hoppe et al., United States (US), 2604107
 <=27> 4681900, July, 1987, Iwasaki, United States (US), 514786
 <=28> 4861613, August, 1989, White et al., United States (US), 426611
 <=29> 4983329, January, 1991, Cooper, United States (US), 2604107
 <=30> 5175323, December, 1992, Cooper, United States (US), 554164
 <=31> 5399728, March, 1995, Cooper, United States (US), 554149
 <=32> 5610130, March, 1997, Thomas et al., United States (US), 510383
 <=33> 5665689, September, 1997, Durbut, United States (US), 510365
- <=34> 5861367, January, 1999, Blanvalet et al., United States (US), 510365 579887, January, 1994, European Patent Office (EP)

586323, March, 1994, European Patent Office (EP)

1045021, October, 2000, European Patent Office (EP)

9523204, August, 1995, World Intellectual Property Organization (WO)

9816605, April, 1998, World Intellectual Property Organization (WO)

CORE TERMS: composition, compound, formula, alkyl, moles, viscosity, ratio, coco, glycerine, mixture, cps, fatty acid, detergent, alkoxylation, viscous, oxide, mono, triglyceride, surfactant, stability, sodium, preservative, sulphate, fatty, ethylene oxide, coconut oil, carbon, acid, atoms, palm oil

ENGLISH-ABST:

The present invention relates to a composition comprising a mixture of alkoxylated mono-, di-, and triglycerides and glycerine of the following formula

<=1> Get Chemical Structure

R' representing H or CH (3), and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of from 1 to 4, each of B1, B2, and B3 representing H or <=I2> Get Chemical Structure

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride being 46 to 90/9

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride being 46 to 90/9 to 35/1 to 15.

The invention also relates to methods for the preparation of this composition, to detergent compositions comprising this composition, and to the use of the composition as surfactant or co-surfactant in detergent compositions.

NO-OF-CLAIMS: 11

EXMPL-CLAIM: 1

NO-OF-FIGURES: 0

NO-DRWNG-PP: 0

SUMMARY: DESCRIPTION

The present invention relates to a composition comprising a mixture of alkoxylated mono-, di-, and triglycerides and glycerine, to methods for the preparation of this composition, to detergent compositions comprising this composition, and to the use of the composition as surfactant or co- surfactant in detergent compositions.

Most of the known detergent compositions use anionic, amphoteric and/or non-ionic surfactants to obtain a final product showing satisfactory properties in terms of detergency and foam profile. However, most of these compositions are generally not satisfactory regarding the problem of ecotoxicity and the irritation to the eyes and the skin.

EP 0 586 323 B1 discloses detergent compositions showing improved properties regarding the ecotoxicity and the irritation to the eyes and to the skin. These compositions comprise the mono-, di- and tri-ester compounds represented by the following formula, wherein the weight ratio of mono-, di-, and tri-ester is 46-90/9-30/1-15:

<=3> Get Chemical Structure

wherein R' represents H or CH (3), B represents H or <=4> Get Chemical Structure

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and each of m, n, and l may have a value between 0 to 40, the sum of m, n and l being in the range of from 2 to 100.

Your search request has found no CASES.

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To enter a new search request, type it and press the ${\tt ENTER}$ key.

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  Comprehensive Worldwide Patents database
  New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
  Last update of file: 2003/01/22 (YYYY/MM/DD) 2003-03/UP (basic update)
  Search statement
?US6265373/PN
  ** SS 1: Results 1
  Search statement
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  You have typed an incorrect word : please check your input
  Search statement
?PRT FULL NONSTOP LEGALALL
  1/1 PLUSPAT - (C) QUESTEL-ORBIT
  PN - US6265373 B1 20010724 [US6265373]
     - (B1) Composition comprising a mixture of alkoxylated mono-, di- and
        triglycerides and glycerine
     - (B1) KAO CORP SA (US)
  PA
     - (B1) BARBERAN PILAR CASTAN (ES); BLANCH MIGUEL MUNDO (ES); OSES
       MARIA JOSE BERMEJO (ES); FERRER JOSEP VILARET (ES); LAGUNA NURIA
        SISCART (ES)
     - US54586800 20000407 [2000US-0545868]
 AΡ
 PR - EP99106233 19990413 [1999EP-0106233]
 IC
     - (B1) C11D-001/825
 EC - C11D-001/74
 PCL - ORIGINAL (O) : 510506000
 DT - Corresponding document
     - US2678935; US3435024; US4115415; US4600539; US4681900; US4861613;
        US4983329; US5175323; US5399728; US5610130; US5665689; US5861367;
        EP0579887 A1; EP0586323 A1; EP1045021; W09523204; W09816605
  STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
     - The present invention relates to a composition comprising a mixture of
        alkoxylated mono-, di-, and triglycerides and glycerine of the
        following formula (Chemical Structure image '1' not included in text)
        R' representing H or CH3, and each of m, n, and l independently
        representing a number from 0 to 4, the sum of m, n and 1 being in the
        range of from 1 to 4, each of B1, B2, and B3 representing H or
        (Chemical Structure image '2' not included in text)
        - wherein R represents an alkyl or alkenyl group having 6 to 22 carbon
       atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride
        being 46 to 90/9 to 35/1 to 15.
        The invention also relates to methods for the preparation of this
       composition, to detergent compositions comprising this composition,
        and to the use of the composition as surfactant or co-surfactant in
        detergent compositions.
  UP ~ 2001-31
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KNODE
      US6265373
                   Page 2
  1/1 LGST - (C) LEGSTAT
 PN - US 6265373 [US6265373]
 AP - US 545868/00 20000407 [2000US-0545868]
 DT - US-P
 ACT - 20000407 US/AE-A
       APPLICATION DATA (PATENT)
        {US 545868/00 20000407 [2000US-0545868]}
      - 20010724 US/BA
       PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
      - 20020604 US/RF
        REISSUE APPLICATION FILED
        20020214
  UP - 2002-24
  1/1 CRXX - (C) CLAIMS/RRX
 PN - 6,265,373 A 20010724 [US6265373]
PA - Kao Corp S A ES
 ACT - 20020214 REISSUE REQUESTED
        ISSUE DATE OF O.G.: 20020604
       REISSUE REQUEST NUMBER: 10/073941
       EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1751
       Reissue Patent Number:
  1/1 PAST - (C) Thomson Derwent
 AN - 200223-001858
     - 6265373 A [US6265373]
 OG - 2002-06-04
 ACT - REISSUE APPLICATION FILED
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Search statement 1		

?FAM US6265373/PN

1 Patent Groups
** SS 1: Results 2

Search statement 2

?FAMSTATE NONSTOP

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1/2 INPADOC - (C) INPADOC
PN - EP 1045021 A1 20001018 [EP1045021]
   - COMPOSITION COMPRISING A MIXTURE OF ALKOXYLATED MONO-, DI- AND
      TRIGLYCERIDES AND GLYCERINE
LA
   - BERMEJO OSES MARIA JOSE [ES]; MUNDO BLANCH MIQUEL [ES]; SISCART LAGUNA
      NURIA [ES]; CASTAN BARBERAN PILAR [ES]; VILARET FERRER JOSEP [ES]
PA
   - KAO CORP SA [ES]
   - EP 99106233/99-A 19990413 [1999EP-0106233]
   - EP 99106233/99-A 19990413 [1999EP-0106233]
   - C11D-001/74
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1/1 LEGALI - (C) LEGSTAT
   - EP 1045021 [EP1045021]
   - EP 99106233/99 19990413 [1999EP-0106233]
DT - EP-P
ACTE- 19990413 EP/AE-A
      EP-APPLICATION
      (EP 99106233/99 19990413 [1999EP-0106233])
    - 20001018 EP/AK-A1 [+]
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     AT BE CH CY DE DK ES FI FR GB GR IT LI NL
    - 20001018 EP/AX [+]
     EXTENSION OF THE EUROPEAN PATENT TO
     AL; LT; LV; MK; RO; SI
    - 20001018 EP/A1 [+]
      PUBLICATION OF APPLICATION WITH SEARCH REPORT
    - 20010131 EP/17P [+]
     REQUEST FOR EXAMINATION FILED
      20001207
    - 20010704 EP/AKX [+]
      PAYMENT OF DESIGNATION FEES
     AT BE DE ES FR GB IT NL
    - 20010816 EP/RBV [+]
     DESIGNATED CONTRACTING STATES (CORRECTION):
     AT BE CH CY DE DK ES FI FR GB GR IT LI NL
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    - 20020227 EP/17Q [+]
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     20020110
UP - 2002-09
2/2 INPADOC - (C) INPADOC
PN - US 6265373 BA 20010724 [US6265373]
   - COMPOSITION COMPRISING A MIXTURE OF ALKOXYLATED MONO-, DI- AND
     TRIGLYCERIDES AND GLYCERINE
   - OSES MARIA JOSE BERMEJO [ES]; BLANCH MIGUEL MUNDO [ES]; LAGUNA NURIA
     SISCART [ES]; BARBERAN PILAR CASTAN [ES]; FERRER JOSEP VILARET [ES]
   - KAO CORP SA [US]
AP - US 545868/00-A 20000407 [2000US-0545868]
PR - EP 99106233/99-A 19990413 [1999EP-0106233]
IC - C11D-001/825
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Search statement 2

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